

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A process for forming a metal cylindrical bearing roller, said process consisting of the steps of:

obtaining a hardened metal cylindrical blank having end face surfaces, a lateral surface defining an outer diameter, and a centered circular bore, said bore having an inner surface defining an inner diameter;

honing the inner surface of the bore having a specified inner diameter, thereby forming an inner bearing surface;

hard turning the lateral surface of the blank to a specified outer diameter, thereby forming an outer bearing surface concentric with said inner bearing surface, wherein said hard turning the lateral surface of the blank further includes forming a radial crown, wherein said end face surfaces are unmachined; and

thereby forming a metal cylindrical bearing roller.

2. (Cancelled).

3. (Original) The process of claim 1 wherein said blank is made of a steel material and is formed by a method selected from the group consisting of warm forging, hot forging, cold forming, and machining.

4. (Original) The process of claim 3 wherein said formed blank is heat treated.

5. (Previously presented) The process of claim 1 wherein said blank is cold formed and comprises a pierced flash, said process further comprising:
prior to honing said inner surface of said bore to a specified inner diameter, removing said pierced flash.

6. (Previously presented) The process of claim 5 wherein said removing said pierced flash is carried out by honing said inner surface of said bore.

7. (Previously presented) The process of claim 1 wherein said honing of said inner surface of said bore is carried out using a diamond honing machine.

8. (Original) The process of claim 1 further comprising:
forming an incised cross-hatch pattern on said inner surface of said bore.

9. (Previously presented) The process of claim 1 wherein said hard turning said lateral surface is carried out using a computer numerically controlled (CNC) lathe.

10. (Previously presented) The process of claim 1 wherein said honing the inner surface of said bore precedes said hard turning the lateral surface of said blank.

11. (Original) The process of claim 1 wherein said hard turning the lateral surface of said blank precedes said hard turning the inner surface of said bore.

12. (Previously presented) The process of claim 9 wherein said lathe comprises a cubic boron nitride or ceramic cutting tool.

13. (Previously presented) The process of claim 1 wherein said hard turning the lateral surface of the blank is carried out in a single operation.

14. (Previously presented) The process of claim 1 wherein said end face surfaces of said cylindrical blank comprise end face surfaces of said cylindrical bearing roller.